

# v1.20\_ MySQL



, MySQL, master-master (-). Eltex.EMS ( <http://dev.mysql.com/doc/refman/5.5/en/replication.html> ). , .

[mysqld] /etc/mysql/mysql.conf.d/mysqld.cnf :

- :  

```
bind-address = 127.0.0.1
```
- server-id. :  
:  

```
server-id = 1
```

  
:  

```
server-id = 2
```
- :  

```
log_bin = /var/log/mysql/mysql-bin.log;
```
- `auto_increment_increment ( ) auto_increment_offset ( )`.  
:  

```
auto_increment_increment= 2  
auto_increment_offset = 1
```

  
:  

```
auto_increment_increment= 2  
auto_increment_offset = 2
```
- , :

```
binlog-do-db = eltex_alert
binlog-do-db = eltex_ems
binlog-do-db = wireless
binlog-do-db = radius
binlog-do-db = eltex_auth_service
binlog-do-db = ELTEX_PORTAL
binlog-do-db = eltex_doors
binlog-do-db = eltex_ngw
```

- , :

```
binlog-ignore-db = mysql
binlog-ignore-db = Syslog
binlog-ignore-db = performance_schema
binlog-ignore-db = information_schema
```

- **mysql** :

```
sudo service mysql restart
```

:

```
GRANT REPLICATION SLAVE ON *.* TO 'replication'@'<ip_server2>' IDENTIFIED BY 'password';
FLUSH PRIVILEGES;
```

:

```
GRANT REPLICATION SLAVE ON *.* TO 'replication'@'<ip_server1>' IDENTIFIED BY 'password';
FLUSH PRIVILEGES;
```

## slave-

- MySQL :

```
show master status \G
```

- :

```
mysql> show master status \G
***** 1. row *****
      File: mysql-bin.000001
      Position: 00000107
  Binlog_Do_DB: eltex_alert,eltex_ems,wireless,radius,eltex_auth_service,ELTEX_PORTAL,eltex_doors,eltex_ngw
  Binlog_Ignore_DB: mysql,Syslog,performance_schema,information_schema
1 row in set (0.00 sec)
```

- **File Position.**

:

```
mysql> CHANGE MASTER TO MASTER_HOST='<ip_server1>', MASTER_USER='replication', MASTER_PASSWORD='password',  
MASTER_LOG_FILE='mysql-bin.000001', MASTER_LOG_POS=107;  
START SLAVE;
```

MASTER\_LOG\_FILE='mysql-bin.000001' – File, .

MASTER\_LOG\_POS=107 – Position, .

#### show slave status \G

```
mysql> show slave status \G  
***** 1. row *****  
      Slave_IO_State: Waiting for master to send event  
      Master_Host: <ip_server1>  
      Master_User: replication  
      Master_Port: 3306  
      Connect_Retry: 60  
      Master_Log_File: mysql-bin.001783  
      Read_Master_Log_Pos: 107  
      Relay_Log_File: mysqld-relay-bin.000001  
      Relay_Log_Pos: 107  
      Relay_Master_Log_File: mysql-bin.001783  
      Slave_IO_Running: Yes  
      Slave_SQL_Running: Yes  
      Replicate_Do_DB:  
      Replicate_Ignore_DB:  
      Replicate_Do_Table:  
      Replicate_Ignore_Table:  
      Replicate_Wild_Do_Table:  
      Replicate_Wild_Ignore_Table:  
      Last_Errno: 0  
      Last_Error:  
      Skip_Counter: 0  
      Exec_Master_Log_Pos: 107  
      Relay_Log_Space: 107  
      Until_Condition: None  
      Until_Log_File:  
      Until_Log_Pos: 0  
      Master_SSL_Allowed: No  
      Master_SSL_CA_File:  
      Master_SSL_CA_Path:  
      Master_SSL_Cert:  
      Master_SSL_Cipher:  
      Master_SSL_Key:  
      Seconds_Behind_Master: 0  
      Master_SSL_Verify_Server_Cert: No  
      Last_IO_Errno: 0  
      Last_IO_Error:  
      Last_SQL_Errno: 0  
      Last_SQL_Error:  
      Replicate_Ignore_Server_Ids:  
      Master_Server_Id: 2  
1 row in set (0.00 sec)
```

**Slave\_IO\_Running Slave\_SQL\_Running «Yes», .**

• :

```
use eltex_ems;
create table test1 (mid int(11) auto_increment, PRIMARY KEY (mid)) Engine=MyISAM;
```

- , .

```
show tables from eltex_ems;
```

- MySQL :

```
show master status \G
```

- :

```
mysql> show master status \G
***** 1. row *****
      File: mysql-bin.000001
      Position: 00000107
      Binlog_Do_DB: eltex_alert,eltex_ems,wireless,radius,eltex_auth_service,ELTEX_PORTAL,eltex_doors,eltex_ngw
      Binlog_Ignore_DB: mysql,Syslog,performance_schema,information_schema
      1 row in set (0.00 sec)
```

:

```
CHANGE MASTER TO MASTER_HOST='<ip_server2>', MASTER_USER='replication', MASTER_PASSWORD='password',
MASTER_LOG_FILE='mysql-bin.000001', MASTER_LOG_POS=107;
START SLAVE;
```

```
mysql> show slave status \G
***** 1. row *****
      Slave_IO_State: Waiting for master to send event
      Master_Host: <ip_server2>
      Master_User: replication
      Master_Port: 3306
      Connect_Retry: 60
      Master_Log_File: mysql-bin.000001
      Read_Master_Log_Pos: 107
      Relay_Log_File: mysqld-relay-bin.000001
      Relay_Log_Pos: 107
      Relay_Master_Log_File: mysql-bin.000001
      Slave_IO_Running: Yes
      Slave_SQL_Running: Yes
```

( , )

, . .

, :

#### replication.sh

```
#!/bin/bash
REMOTE_HOST='<IP >'
LOGIN='< >'
PASS='< >'

REMOTE_FILE=`mysql --host=$REMOTE_HOST --user=$LOGIN --password=$PASS -e "show master status \G" | grep
"File" | awk '{print $2}'`
REMOTE_POS=`mysql --host=$REMOTE_HOST --user=$LOGIN --password=$PASS -e "show master status \G" | grep
"Position" | awk '{print $2}'`

echo REMOTE_FILE=$REMOTE_FILE
echo REMOTE_POS=$REMOTE_POS
mysql --user=$LOGIN --password=$PASS -e "stop slave"
mysql --user=$LOGIN --password=$PASS -e "CHANGE MASTER TO MASTER_HOST='$REMOTE_HOST',
MASTER_USER='replication', MASTER_PASSWORD='password', MASTER_LOG_FILE='$REMOTE_FILE',
MASTER_LOG_POS=$REMOTE_POS;"
mysql --user=$LOGIN --password=$PASS -e "start slave"
```

, mysql .

:

```
chmod +x replication.sh
```

- **/etc/keepalived/revive\_mysql\_replication.sh** :

```
#!/bin/bash
LOCAL_FILE=`mysql --user=root --password=root -e "show slave status \G" | grep "Master_Log_File" | awk '{print
$2}'`
REMOTE_FILE=`mysql --host=<IP > --user=root --password=root -e "show master status \G" | grep "File" | awk
'{print $2}'`

if [ $LOCAL_FILE != $REMOTE_FILE ]
then
mysql --user=root --password=root -e "stop slave"
mysql --user=root --password=root -e "start slave"
fi
```

host - .

- cron :

```
crontab -l | { cat; echo "*/1 * * * * /etc/keepalived/revive_mysql_replication.sh"; } | crontab
```

- (IP- ):

```
GRANT ALL PRIVILEGES ON *.* TO 'root'@'<ip_server2>' IDENTIFIED BY 'root';
FLUSH PRIVILEGES;
```

- (IP- ):

```
GRANT ALL PRIVILEGES ON *.* TO 'root'@'<ip_server1>' IDENTIFIED BY 'root';  
FLUSH PRIVILEGES;
```